

Amendments to the Claims

JC17 Rec'd PCT/PTO 09 JUN 2005

Claim 1 (currently amended): ~~Method A~~ method of preparing a target slide for mass spectroscopy analysis comprising the steps of: making at least one pit (9a-9n) which is less than 1 mm wide and having a wall (13a-13n) and a pit bottom (15a-15n) in a sample receiving surface (5) of ~~the~~ a substrate (3) of ~~a~~ the target slide (1), wherein there is a rim (11a-11n) between said sample receiving surface and said wall (13a-13n); and, making said sample receiving surface (5) and the rim (11a-11n) of said at least one pit (9a-9n) more hydrophobic than the substrate (3) of said target slide.

Claim 2 (currently amended): ~~Method in accordance with claim 1 characterised by the steps of forming said at least one pit (9a-9n) in said slide and coating the rim (11a-11n) of said at least one pit (9a-9n)~~ The method of claim 1, wherein said rim (11a-11n) is coated with a layer of hydrophobic material (17).

Claim 3 (currently amended): ~~Method in accordance with any of the previous claims characterised by~~ The method of claim 1, further comprising the step of making the pit bottom(s) (15a-15n) of said at least one pit (9a-9n) more hydrophobic than the substrate (3) of said target slide.

Claim 4 (currently amended): ~~Target A~~ target slide for use in a mass spectrometer ~~characterised in that it comprises comprising~~ a substrate (3) ~~with having~~ a sample receiving surface (5) ~~comprising including~~ at least one pit (9a-9n) which is less than 1 mm wide and having a wall (13a-13n) and a pit bottom (15a-15n) in said sample receiving surface (5), wherein there is a rim (11a-11n) between said sample receiving

surface and said wall (13a-13n), wherein said sample receiving surface (5) and the rim (11a-11n) of said at least one pit (9a-9n) are more hydrophobic than the substrate (3).

Claim 5 (currently amended): ~~Target slide in accordance with claim 4 characterised in that~~ The target slide of claim 4, wherein said at least one pit is more than 0.05 mm wide.

Claim 6 (currently amended): ~~Target slide in accordance with any of claims 4-5 characterised in that~~ The target slide of claim 4, wherein said at least one pit (9a-9n) is less than 100 μm deep.

Claim 7 (currently amended): ~~Target slide in accordance with any of claims 4-6 characterised in that~~ The target slide of claim 4, wherein said at least one pit (9a-9n) is more than 5 μm deep.

Claim 8 (currently amended): ~~Target slide in accordance with any of claims 4-7 characterised in that~~ said target slide comprises The target slide of claim 4, comprising a substrate (3) of conducting material coated with a layer (17) of hydrophobic material.

Claim 9 (currently amended): ~~Target slide in accordance with~~ The target slide of claim 8, wherein characterised in that said layer (17) of hydrophobic material is less than 0.1 mm thick.

Claim 10 (currently amended): ~~Target slide in accordance with any of claims 4-9~~
~~characterised in that~~ The target slide of claim 4, wherein said pit bottom (15a-15n) is
more hydrophobic than the substrate (3).